UCT-0037 10/641,705							641,705		
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Can Erkey et al.									
08/15/2003							SROUP		
JAN	JAN 2 6 2004 9								
PAMINER INCOME		DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
S.	ADE	US 2002/0070167	6/13/2002	Krasuts	ky et al.	210	634		
T		4,933,404	6/12/1990	Beckma	n et al.	524	207		
		4,996,366	2/26/1991	Tinucci	et al.	528	454		
		5,158,704	10/27/1992	Fulton e	et al.	252	309		
		5,266,205	11/30/1993	Fulton e	t al.	210	639		
		5,238,671	8/24/1993	Matson	et al.	423	397		
		5,770,172	6/23/1998	Linehan et al.		423	561.1		
		5,814,678	8/29/1998	Randolph		522	18	· · · · · · · · · · · · · · · · · · ·	
		6,299,652	10/9/2001	Jureller et al.		රි	142		
(Si)		6,452,055	9/17/2002	Koch et al.		578	454		
			<i>,</i>						
FOREIGN PATENT DOCUMENTS									
		DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
		OTHER DOCUMEN			Title, Date, Pertinent P	ages, Etc.)			
WO9961401; A1; 19991202 (Abstract Only)									
@	Smith, R. T. et al., "Rhodium Complexes of the Water-Soluble Phosphine Ph2PCH2CH2NMe3+. Their Complexes with Hydride, Olefin, and Carbon Monoxide Ligands. Their Use as Olefin Hydrogenation and Hydroformylation Catalysts in Aqueous Solution and in Aqueous/Organic Solven Two-Phase Systems and Adsorbed on A Cation-Exchange Resin", Organometallics, 1983, 2, 1138-1144,								
EXAMINER	-	S. Withuppor			DATE CONSIDERED	0/11/	,·(
	EXAMINER: Initial If reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not onsidered. Include copy of this form with next communication to applicant.								

• •					ATTY DOCKET NO. UCT-0037	SERIAL NO. 10/641,705				
1		(0	ATION DISCLOSURE se several sheets if neces		Can Erkey et al.					
/01	7063					FILING GROUP 08/15/2003				
JAN 2 6 2004 5										
MINER	DOCUMENT NUMBER DATE			NAME	CLASS	CLASS SUBCLASS FILING DATE				
	NUC.	1_								
			•							
										<u> </u>
									:	
•										
					·					
				FOREIG	GN PATE	IT DOCUMENTS				
			DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANS	LATION NO
										-
-			OTHER DOCUME	NTS (Including	Author,	Title, Date, Pertinent	Pages, Etc.,)		
@			Hou, M-J. et al., "Effect Water/Oil Microemulsio	s of the Molecular ns", Langmuir 19	Structure 87, 3, 108	e of the Interface and Con 6-1096.	ntinuous Phas	e on Solubilizat	ion of Wat	er in
œ.	Arhancet, J. P. et al., .Hydroformulation by supported aqueous-phase catalysis: a new class of heterogeneous catalysts", Nature, 339 (1989), 454-455.									
XAMINER		S.	Withingor			DATE CONSIDERED	4/11/	<i>در</i>	_	
EXAMINER considered.	R: Initi Inclu	al if refe de copy	erence considered, whether	r or not citation is in nmunication to appli	conforma	nce with MPEP 609; Draw	line through ci	tation if not in co	nformance	and not

Form PTO-A820 (also form PTO-1449) P09C/REV03

Patent and Trademark Office * U.S. DEPARTMENT OF COMMERCE

, ,						ATTY DOCKET NO. UCT-0037		SERIAL NO. 10/	641,705		
	_		ATION DISCLOSURE Ise several sheets if necess			Can Erkey et al.					
/01	P					FILING GROUP 08/15/2003					
JAN MINER INITIAL	وه	85	DOCUMENT NUMBER	DATE		NAME		SUBCLASS	CLASS FILING DATE IF APPROPRIATE		
	<u>iOtrice</u>										
								-			
•											
•											
				FOREIG	GN PATE	NT DOCUMENTS	<u> </u>		.		
			DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANS YES	LATION NO	
						-					
					•						
			OTHER DOCUME	NTS (Including	Author,	Title, Date, Pertinent	Pages, Etc.)			
@	Wan et al., "Design and Synthesis of a Heterogeneous Asymmetric Catalyst", Nature, Vol 370 (1994), 449-450.										
(FL)			Harrison, K. L. et al., "Effect of Surfactants on the Interfacial Tension Between Supercritical Carbon Dioxide and Polyethylene Glycol", Langmuir, 1996, 12, 2637-2644.								
EXAMINER		J	· Witherspor			DATE CONSIDERED	6/16/0	f			
EXAMINER considered.	l: Initia Includ	l if ref	erence considered, whether y of this form with next com	or not citation is in	conforma	ince with MPEP 609; Draw	line through ci	tation if not in co	onformance	and not	

	,		•			ATTY DOCKET NO. UCT-003		SERIAL NO. 10/	641,705	
' /			TION DISCLOSURE se several sheets if necess			Can Erkey et al.				
OIPE						FILING GROUP 08/15/2003				
(JAN 2 6 2004 0) U.S. PATENT DOCUMENTS										
EXAMINER INITIA			DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING DAT	
INITING	HOEN	3/_							IF APPROP	RIATE
									!	
	 									
····								 	-	
	<u> </u>		·			· - · - · · · · · · · · · · · · · ·		ļ		
					··- ·					
	<u> </u>									
									! :	
•										
•										
				FOREIG	GN PATE	IT DOCUMENTS	I			
			DOCUMENT NUMBER	DATE		COUNTRY CLASS		SUBCLASS	TRANS	LATION NO
									163	NO
		· · · · · ·	· · · · · · · · · · · · · · · · · · ·							
									!	
									<u></u>	
		J	OTHER DOCUME			Title, Date, Pertinen	-		uding Prot	eins".
(F)		S	ohnston, K. P. et al., "V cience, Vol 271, (1996),	624-626.				,		,
(Ju)	World to UN orbital to UN orbital to University April Management Control Orbital April 1000 Vol 2								6, Vol 2,	
EXAMINER	EXAMINER Sikarl Witherpor DATE CONSIDERED 6/16/04									
EXAMINER considered.	EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not onsidered. Include copy of this form with next communication to applicant.									

					ATTY	ATTY DOCKET NO. SERIAL NO. 10/641,			641,705		
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)						Can Erkey et al.					
10	1PZ				FILING	08/15/2003		GROUP			
JAN	2 6 2	W 07		U.S. 1	PATENT DOCUM	MENTS				F	
DAN			DOCUMENT NUMBER	DATE	N	NAME	CLASS	SUBCLASS	FILING DAT		
n	ADE:										
	ļ										
									 	-	
								1			
-	 										
								+			
								-			
•											
•	-										
		L		FOREIG	N PATENT DOC	UMENTS	L				
			DOCUMENT NUMBER	DATE	col	JNTRY	CLASS	SUBCLASS		LATION	
									YES	NO	
				 							
				· ·							
					<u> </u>						
			OTHER DOCUME	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Author Title	Date, Pertinent P	Pagas Eta				
			OTHER DOCUME Clarke, M. J. et al., "Wa Environment for Aqueou						n of a New	ν.	
(F)											
@	Deshpande, R. M. et al., "Effect of pH on rate and selectivity behavior in biphasic hydroformulation of 1-octene", Journal of Molecular Catalysis A: Chemical 126 (1997) 133-140.									urnal of	
EXAMINER	₹	\$	- Witherpoor	•	DATE O	CONSIDERED	6/16/0	4			
			rence considered, whether of this form with next com			n MPEP 609; Draw lin	ne through ci	tation if not in co	nformance	and not	

		Docket Number (Optional)	Application Number					
INFO	ORMATION DISCLOSURE CITATION PE	UCT-0037 Applicant(s)	10/641,705					
A. 12 🗸	(Use several sheets if necessary)	Can Erkey et al.						
	JAM 2 6 2004 55	Filing Date 08/15/2003	Group Art Unit					
*EXAMINER INITIAL	Rangin	tle, Date, Pertinent Pages, Etc.)						
	Heitz, M. P. et al., "Water Core within Perfluoropo J. Phys. Chem B 1997, 101, 6707-6714.	lyether-Based Microemulsions Forme	ed in Supercritical Carbon Dioxide",					
(A)	V. 1 By V. S. V. 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1							
	Cornils, B. et al., "Aqueous-Phase Organometallic (Wiley-VCH, 59-143.	Catalysis; Concepts and Applications"	', 1998, Weinhem, Germany:					
	Horvath, I. T., "Fluorous Biphase Chemistry", Acc.	. Chem. Res. 1998, 31, 10, 641-650.						
	1101 vata, 1. 1., Finorous diphase Chemistry , Acc. Chem. Res. 1770, 31, 10, 041-030.							
	Niemeyer, E. D., "The pH within PFPE Reverse Mi 1474-1478.	celles Formed in Supercritical CO2",	J. Phys. Chem. B 1998, 102,					
	Cornils, B., "Bulk and Fine Chemicals Via Aqueous (1999) 1-10.	Biphasic Catalysis", Journal of Mole	cular Catalysis A: Chemical 143					
	Holmes, J. D. "Synthesis of Cadmium Sulfide Q Par	rticles in Water-in-CO2 Microemulsio	ns", Langmuir 1999, 15, 6613-6615.					
	Holmes, J. D. "Buffering the Aqueous Phase pH in \ 5703-5711.	Water-in-CO2 Microemulsions", J. Ph	hys. Chem. B 1999, 103,					
	Jacobson, G. B., "Organic Synthesis in Water/Carb							
	Jacobson, G. B., "Enhanced Catalyst Reactivity and Soc. 1999, 121, 11902-11903.							
	Kane, M. A., "Performance of Cholesterol Oxidase S Dioxide", Langmuir 2000, 16, 4901-4905.	Sequestered within Reverse Micelles I	Formed in Supercritical Carbon					
	Liu, Z. et al, "Water in Carbon Dioxide Microemu							
(A)	Dong, X. et al., "Behavior and Micelle Size of an Aq Ind. Eng. Chem. Res. 2002, 41, 1038-1042.	ueous Microdispersion in Supercritics	al CO2 with a Novel Surfactant",					
EXAMINER	S. Willespoon	DATE CONSIDERED 6/16/84	4					
EXAMINER: Initi	ial if citation considered, whether or not citation is in conforman	ace with MPEP Section 609; Draw line thr	rough citation if not in conformance and					

not considered. Include copy of this form with next communication to applicant.

		Docket Number (Optional)	Application Number						
INFC	DRMATION DISCLOSURE CYTAPION	UCT-0037 Applicant(s)	10/641,705						
mu	(Use several sheets if necessary)	Can Erkey et al.							
•	JAN 2 6 2004 6	Filing Date 08/15/2003	Group Art Unit						
*EXAMINER	OTHER DOCUMENTS Including And For, Titl	le, Date, Pertinent Pages, Etc.)							
_	X. Dong et al., "Synthesis of CuS Nanoparticles in V	Water-in-Carbon Dioxide Microemuls	ions", Ind. Eng. Chem. Res. 2002, 41,						
Em									
	Can Erkey et al., "Hydroformylation of ethylene in Catalysis Communications 3 (2002) 213-219.	supercritical carbon dioxide using Ru	ic(SO)12 as a catalyst precursor",						
	Shaker Haji et al., "Investigation of rhodium catalyzed hydroformulation of ethylene in supercritical carbon dioxide by in situ FTIR spectroscopy", Tetrahedron, Volume 58 (2002) 3929-3941.								
	Haumann., M. et al., "Hydroformylation of 1-dodec General 225 (2002) 239-249.	ene using Rh-TPPTS in a microemuls	ion", Applied Catalysis A:						
	Ohde, H. et al., "Water-in-CO2 Microemulsions as Supercritical CO2", Nano Letters 2002, Volume 2, I	Nanoreactors for Synthesizing CdS an Number 7, pages 721-724.	ad ZnS Nanoparticles in						
	Ohde, H. et al., "Hydrogenation of Olefins in Super Microemulsion", J. Am. Chem. Soc., 2002, 124, 454	critical CO2, Catalyzed by Palladium 0-4541.	Nanoparticles in a Water-in-CO2						
	http://www.cmt.anl.gov/toroid-cavity/poster1/aip-04	4index.html; printed 8/5/2002; 18 pag	jes.						
	Keith P. Johmston et al., "Reactions and Synthesis i Synthesis Series (2001), 100 (Reactions and Synthesis	in Microemulsions and Emulsions in C is in Surfactant Systems), 349-358.	Carbon Dioxide", Surfactant						
	David E. Fremgen et al., " Microemulsions of water formation and structure" Journal of Supercritical F	in superficial carbon dioxide: an in-si luids 19 (2001) 287-298.	itu NMR investigation of micelle						
	Gunilla B. Jacobson et al., "Biphasic Catalysis in W Chemical Society, 217th ACS National Meeting 0-84	'ater/Carbon Dioxide Micellar System 412-3672-0, March 21-25, 1999.	s", (Abstract Only), American						
	J. D. Holmes et al., "Bioconversions in a Water-in-C								
(SL)	Yutaka Ikushima, "Supercritical fluids: an interesti and Interface Science 71-72 (1997) 259-280.	ng medium for chemical and biochemi	ical processes", Advances in Colloid						
EXAMINER	S. Willerpoor	DATE CONSIDERED	loy						
EXAMINER: Init	itial if citation considered, whether or not citation is in conforman								

not considered. Include copy of this form with next communication to applicant.

	r		Docket Number (Optional)	Application Number
o , '	·, ;	() IPR	UCT-0037	10/641,705
	ORM	ATION DISCLOSURE CITATION	Applicant(s)	20,0.13,00
		(University beautifus assessment 1)	Can Erkey et al.	
•		(Use several sneets if necessary)	Filing Date	Group Art Unit
			08/15/2003	
*EXAMINER INITIAL			le, Date, Pertinent Pages, Etc.)	
_		Marina A. Hauck et al., "Hemoproteins-Catalyzed Microemulsions, and Emulsions in Supercritical Flu	Oxidations of Organosulfur Compoun iids", (Abstract Only), American Che	ds in Reverse Micelles, mical Society, 222nd ACS National
Q		Meeting 0-8412-3803-0, August 26-30, 2001.	•••	•
i		Dongil Lee et al., "Electrochemistry In Water-In-Su Society, 222nd ACS National Meeting 0-8412-3803-	upercritical-CO2, Microemulsions", (A	Abstract Only) American Chemical
		Buciery, 222110 ACS Transman Meeting 0-0412-3003-	v, ragust 20-00, 4001.	
		Robert H. Grubbs et al., "Catalytic Reduction of O	lefins with a Polymer-Supported Rhoo	lium(I) Catalyst" Journal of the
		American Chemical Society, 93:12, June 16, 1971, p	pages 3062-3063.	
1				
	-	M. Capka et al., "Hydrogenation, Hydrosilylation a	and Hydroformylation of Olefins Cata	lysed by Polymer-Supported
		Rhodium Complexes", Tetrahedron Letters No. 50,	рр 4787-4790, 1971.	A A A
	-			
<u> </u>		Yutaka Ikushima, "Supercritical fluids as media for	s chamical and bischamical vasction at	Decent Desegrah Develorments !-
		Yutaka Ikushima, "Supercritical fluids as media for Chemical Engineering (1997), 1, 49-57.	r cnemicai and diocnemical reactions''	, Recent Research Developments in
(In				
•	}			
•				
Ţ				
ZVAMINED			DATE CONSIDERED	· · · · · · · · · · · · · · · · · · ·
EXAMINER		P. Wuherspoon	DATE CONSIDERED	<i>1</i> .
		J. When Som	0/16/01	Н
EVALUED I		to all a second decorate and a beat a second attack and a large and a second annual	nee with MPFP Section 600. Draw line the	ough citation if not in conformance and

not considered. Include copy of this form with next communication to applicant.